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Patent  
Attorney Docket No. 030681-544

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Tae-kyun Kim

Group Art Unit: 2621

Application No.: 10/621,356

Examiner:

Filing Date: July 18, 2003

Confirmation No.: 2575

Title: METHOD AND SYSTEM FOR FACE DETECTION USING PATTERN CLASSIFIER

**FIRST  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a **FIRST** Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

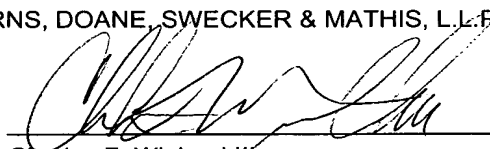
The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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By

  
Charles F. Wieland III  
Registration No. 33,096

Date: May 6, 2005

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

# Provisional Patent Application of

Tae-kyun Kim

**Application No.: 10/621,356**

Filed: July 18, 2003

**For: METHOD AND SYSTEM FOR FACE  
DETECTION USING PATTERN  
CLASSIFIER**

Group Art Unit: 2621

**Examiner:**

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## FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Sir:**

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

**BURNS, DOANE, SWECKER & MATHIS, L.L.P.**

Date May 6, 2005

By:

~~Charles F. Wieland III  
Registration No. 33,096~~

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Substitute for form 1449A/PTO & 1449B/PTO		<b>Complete if Known</b>	
<b>FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	10/621,356
		Filing Date	July 18, 2003
		First Named Inventor	Tae-kyun Kim
		Examiner Name	
Sheet	1	Attorney Docket Number	030681-544

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS											
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec

NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	*G.A. MOTA et al., "Face Detector Combining Eigenfaces, Neural Network and Bootstrap", Sixth Brazilian Symposium on Neural Networks, Vol. 1, November 22, 2000, pp. 290
	*S. GONG et al., "Dynamic Vision: from Images to Face Recognition", Imperial College Press, London, Great Britain, 2000, pp. 81-102, 176, and 297-298
	*MARIAN S. BARTLETT, "Face Image Analysis by Unsupervised Learning", Kluwer, Norwell, MA, 2001, pp. 117-119, 47-48, and VII-IX
	*YUAN QI et al., "Hybrid Independent Component Analysis and Support Vector Machine Learning Scheme for Face Detection", IEEE International Conference on Acoustics, Speech, and Signal Processing, May 07, 2001, Vol. 3 of 6, New York, NY, pp. 1481-1484
	*SERGIOS THEODORIDIS et al., "Pattern Recognition", Academic Press, 1999, San Diego, CA, pp. 351-354
	*LINGMIN MENG et al., "Two Subspace Methods to Discriminate Faces and Clutters", 7 <sup>th</sup> IEEE International Conference on Image Processing, Vol. 100, September 10, 2000, pp. 215-218
	*R. K. SINGH et al., "Background Learning for Robust Face Recognition", IEEE Comput. Soc., Vol. 3, August 11, 2002, pp. 525-528
	*BABACK MOGHADDEN et al., "Probabilistic Visual Learning for Object Representation", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 19, No. 7, pp. 696-710
	*European Patent Office Search Report

\*Copy Attached

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.